

## SCS ENGINEERS

October 11, 2017  
File No. 25216072.17

Mr. Rob Saunders  
Ottumwa Generating Station  
20775 Power Plant Road  
Ottumwa, Iowa 52501

Subject: Groundwater Monitoring System Certification  
Ottumwa Generating Station, Ottumwa, Iowa

Dear Mr. Saunders:

The groundwater monitoring system at the Ottumwa Generating Station is designed and constructed to meet the requirements of 40 CFR 257.91. The monitoring network is sufficient to accurately represent the quality of background groundwater that has not been affected by leakage from the coal combustion residue (CCR) unit and the quality of groundwater passing the waste boundary of the CCR unit.

Based on the design information provided for our review, the number, spacing, and depths of the monitoring system components were determined using site-specific information in accordance with 40 CFR 257.91(b).

The groundwater monitoring system consists of one upgradient and five downgradient monitoring wells, which exceeds the minimum requirements of 40 CFR 257.91(c)(1).



The groundwater monitoring system at the Ottumwa Generating Station monitors a single existing CCR unit:

- OGS Ash Pond

Based on the installation documentation provided for our review, the monitoring wells have been cased in a manner that will maintain the integrity of the monitoring well borehole and were constructed in accordance with the requirements of 40 CFR 257.91(e).



**P.E. Certification**

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|   | <p>I, Eric J. Nelson, hereby certify that that the groundwater monitoring system at the Ottumwa Generating Station has been designed and constructed to meet the requirements of 40 CFR 257.91. This certification is based on my review of documentation in the operating record regarding the design, installation, and development of the groundwater monitoring system components. I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> |
|  | <p> 10/11/2017</p>  |
|  | <p>(signature) (date)</p>  |
|  | <p>Eric J. Nelson</p>  |
|  | <p>(printed or typed name)</p>   |
| <p>License number <u>23136</u></p>   |  |
| <p>My license renewal date is December 31, <u>2018</u>.</p>  |  |
| <p>Pages or sheets covered by this seal:<br/><u>GROUNDWATER MONITORING SYSTEM CERTIFICATION</u><br/><u>(2 PAGES)</u></p> |  |
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Sincerely,



Eric J. Nelson, PE  
Senior Project Manager  
**SCS ENGINEERS**



Thomas J. Karwoski  
Senior Project Manager  
**SCS ENGINEERS**

MDB/jsn/SC/EN/TK

cc: Jeff Maxted, Alliant Energy  
Matt Hanson, Ottumwa Generating Station